

**What is claimed is :**

1. A method for culturing organic blue-green algae, comprising the steps of:  
obtaining desired algae species;  
inoculating the culture medium; and  
carrying out mass culture;  
5 characterized in that said culture medium contains high-nitrogen organic substance, which is fermented and aerated to give the culture medium a pH of 8 or greater.
2. The method according to Claim 1, wherein said culture medium is not added with inorganic salts.
3. The method according to Claim 2, wherein said culture medium is not added  
10 with carbonate or hydrogen carbonate.
4. The method according to Claim 1, wherein said culture medium may be further added with edible microorganisms.
5. The method according to Claim 1, wherein said high-nitrogen organic substance is high-protein organic matter.
- 15 6. A process for preparing culture medium for organic blue-green algae, comprising the steps of:  
obtaining high-nitrogen organic substance;  
carrying out agitation and fermentation; and  
carrying out aeration and agitation until the medium achieves a pH of 8 or  
20 greater.
7. The process according to Claim 6, wherein said high-nitrogen organic substance

is high-protein organic matter.

8. The process according to Claim 6, wherein said culture medium is not added with inorganic salts.

5 9. The process according to Claim 8, wherein said culture medium is not added with carbonate or hydrogen carbonate.

10. The process according to Claim 6, wherein said culture medium may be further added with edible microorganisms.

11. An organic blue-green algae cultured according to the method of Claim 1.

10 12. A culture medium for organic blue-green algae prepared according to the process of Claim 6.

13. An organic blue-green algae cultured in the culture medium according to Claim 12.